IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

present application:

1. (Previously presented) A method for establishing links between Fibre Channel (FC)

node devices through a FC fabric, the method comprising:

assigning a common name to a pair of ports, wherein each port in the pair of

ports is located on first and second FC node devices, respectively, and the pair of ports

includes a source port and a destination port;

storing the common name-to-port assignment within a name server for the FC

fabric;

configuring the first FC node device to query the name server to obtain an

identity for the port located on the second FC node device based on the common name,

and configuring the second FC node device to query the name server to obtain an

identity for the port located on the first FC node device based on the common name;

and

configuring the first FC node device to create a link between the pair of ports

using the identity for the second FC node device, and configuring the second FC node

device to create a link between the pair of ports using the identity for the first FC node

device.

2. (Previously presented) The method of claim 1, wherein assigning the common name

comprises automatically deriving the common name based on attributes of the pair of

ports.

Naveen Bali, et al. Serial No: 10/692,669 Examiner: Dustin Nguyen Art Unit: 2154 3. (Previously presented) The method of claim 2, wherein automatically deriving the

common name comprises:

detecting a port type, a slot number, and a sub-slot number for the pair of ports;

and

combining the port type, the slot number and the sub-slot number for the

common name.

4. (Previously presented) The method of claim 3, storing the common name-to-port

assignment within the name server for the FC fabric comprising storing the common

name within at least a portion of a symbolic name for each port, as defined in the FC

protocol.

5. (Previously presented) The method of claim 4, wherein storing the common name-to-

port assignment within the name server comprises configuring each port to register the

common name as a symbolic name with the name server.

6. (Currently amended) A method for creating links between Fibre Channel (FC) node

devices through $\underline{a}[[an]]$ FC fabric, the method comprising:

assigning a symbolic name to each of a plurality of FC ports, wherein each FC

port is located on a different[[an]] FC node device, and each symbolic name is a

combination of a plurality of attributes of a corresponding FC port, and the plurality of

attributes are selected from the group consisting of a port type, a slot number for each

FC port, and a sub-slot number for each FC port;

configuring each FC port to register its symbolic name as a symbolic port name

with a name server for the FC fabric;

configuring each FC port to query the name server to find a[[an]] FC identifier of another FC port based on the symbolic name of the another FC port; and configuring each FC port to login to the another FC port using the FC identifier.

7-8. (Canceled)

9. (Currently amended) The method of claim <u>6</u>[[8]], wherein the plurality of attributes are automatically detected by an operating system for the FC node device[[s]].

10. (Previously presented) The method of claim 9, wherein assigning the symbolic name comprises storing the symbolic name at a predefined location within a symbolic name field for each port, as defined in the FC protocol.

11. (Currently amended) A computer readable medium, having stored thereon a sequence of instructions which when executed by a processor, cause the processor to perform a method for establishing a link from a first Fibre Channel (FC) port to a second FC port through a[[an]] FC fabric, the method comprising:

querying a name server for the FC fabric to obtain a[[an]] FC identity for the second port, based on a match of a symbolic name of the first FC port and a symbolic name of the second FC port, wherein the first and second FC ports are located on first and second FC node devices, respectively, and the symbolic names are stored within the name server; and

creating the link from the first FC port to the second FC port using the <u>obtained</u> FC identity for the second FC port.

Naveen Bali, et al. Serial No: 10/692,669 Examiner: Dustin Nguyen Art Unit: 2154 12. (Previously presented) The computer readable medium of claim 11, wherein the

symbolic name stored within the name server is automatically derived based on

attributes of the first and second FC ports.

13. (Previously presented) The computer readable medium of claim 12, wherein the

attributes comprise a port-type, a slot number, and a sub-slot number for the first and

second FC ports.

14. (Currently amended) A computer readable medium having stored thereon a

sequence of instructions which when executed by a processor, cause the processor to

perform a method for creating links between a first Fibre Channel (FC) port and a

second FC port through $\underline{a}[[an]]$ FC fabric, the method comprising:

querying a name server for the FC fabric to obtain symbolic names of other FC

ports on the FC fabric that support an upper-level protocol (ULP) supported by the first

FC port, wherein each symbolic name is derived based on port type and PCI address of

a corresponding FC port and registered within a symbolic name field in a database for

the name server by a FC node device having the corresponding FC port;

comparing each of the symbolic names obtained from the name server with a

symbolic name for the first FC port to find a match; and

performing a port login using a port identifier of the second FC port whose

symbolic name has the match with the symbolic name for the first FC port.

15. (Previously presented) The computer readable medium of claim 14, wherein the

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upper-level protocol is the Fibre Channel Virtual Interface (FCVI) protocol.

16. (Currently amended) A storage system comprising:

a processor;

a network adapter, coupled to the processor, to connect the storage system to a

Fibre Channel (FC) fabric; and

a memory, coupled to the processor, to store instructions which when executed

by the processor cause the processor to perform a method for creating a link between a

first FC port and a second FC port through $\underline{a}[[an]]$ FC fabric, the method comprising:

querying a name server for the FC fabric to obtain symbolic names for FC

ports in other storage systems on the FC fabric, wherein each symbolic name is

derived based on port type and PCI address of a corresponding FC port and

registered within a symbolic name field in a database for the name server by a

storage system which has the corresponding FC port;

comparing each of the symbolic names obtained from the name server

with a symbolic name for the first FC port to find a match; and

performing a port login using a port identifier of the second FC port

whose symbolic name has the match with the symbolic name for the first FC

port.

17. (Previously presented) The storage system of claim 16, wherein the symbolic names

stored in the name server are automatically derived based on a plurality of attributes of

the first and second FC ports.

18-21. (Canceled)

22. (Currently amended) A method for creating a link from a first Fibre Channel (FC)

node device to a second FC node device on a[[an]] FC fabric having a name server for

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the FC fabric, the method comprising:

querying the name server to retrieve a plurality of values for a symbolic name

field within a name server database for the name server;

searching the plurality of values received from the name server for a

combination of a plurality of attributes of the second FC node device, wherein the

plurality of attributes are selected from the group consisting of a port type, a slot

number and a sub-slot number for each port in the second FC node device, and the first

FC node device;

obtaining a FC identifier for the second FC node device from the name server

using the searched combination of the plurality of attributes of the second FC node

device; and

creating the link from the first FC node device using a[[an]] FC identifier for the

second FC node device, wherein the FC identifier is obtained from the name server, and

the second FC node device has the combination as a value for a corresponding symbolic

name-field.

23. (Canceled)

24. (Previously presented) The method of claim 22, wherein the combination of the

plurality of attributes are registered with the name server as a symbolic name by the

second FC node device.

25. (Previously presented) The method of claim 24, wherein the plurality of attributes

are automatically detected and combined for the combination by an operating system

for the second FC node device.

26. (Previously presented) The method of claim 22, wherein the combination is stored at a predefined location within a symbolic name field for each port, as defined in the FC protocol, in the name server database.

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